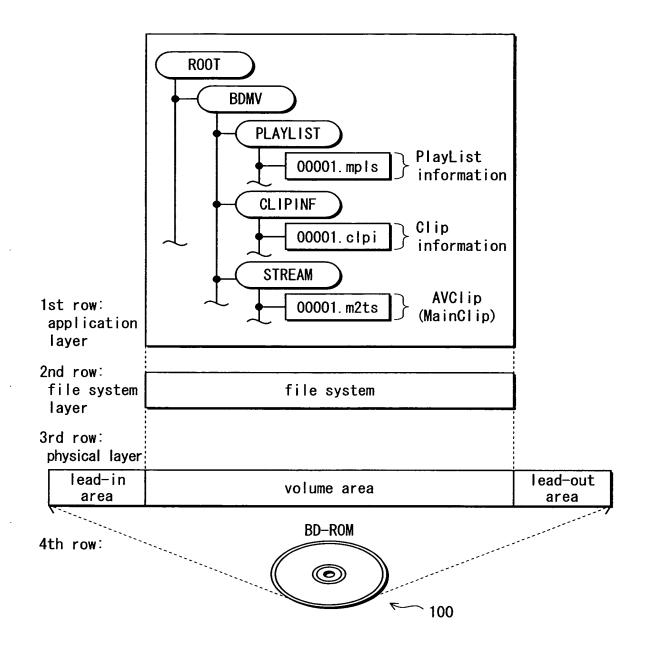
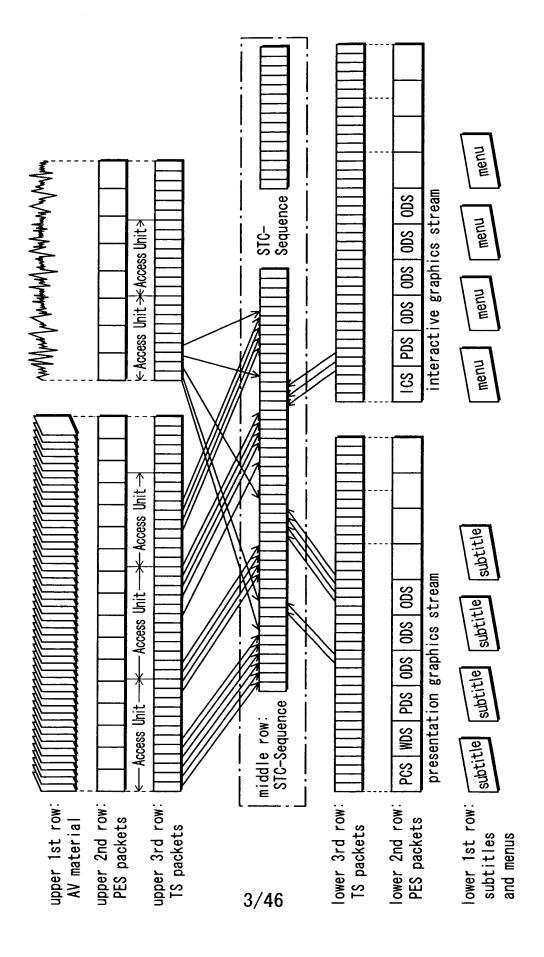


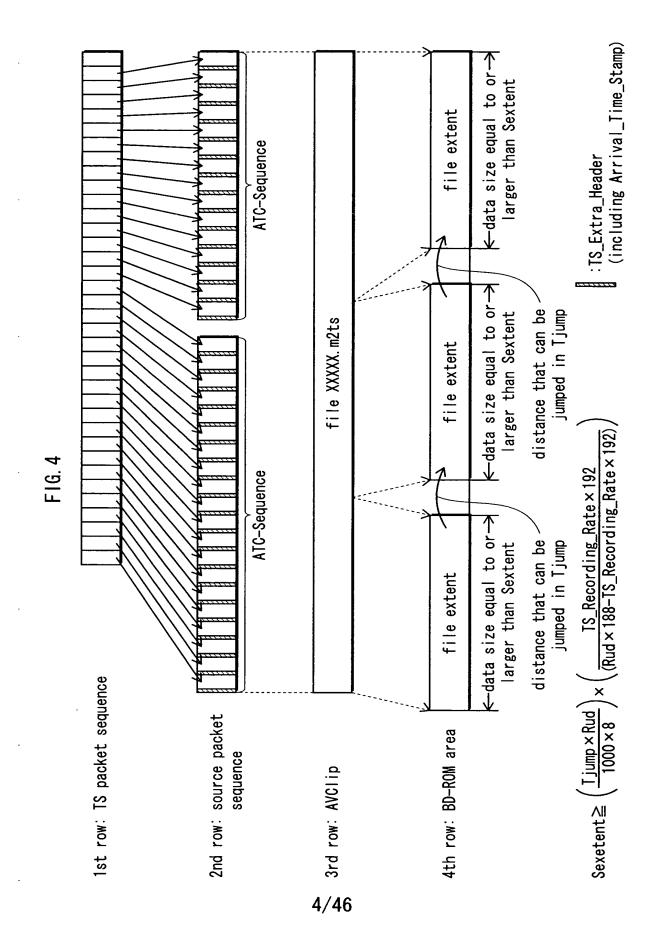
<u>.</u>

FIG. 2

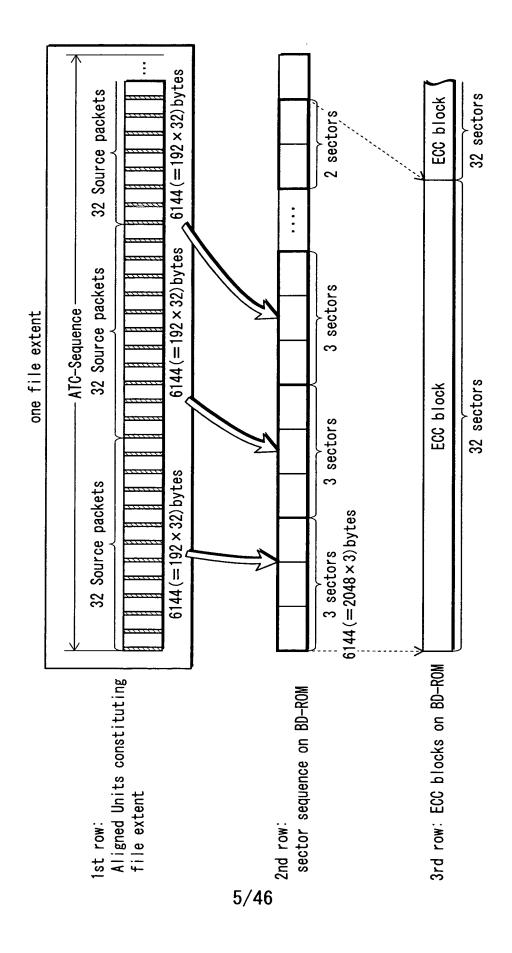


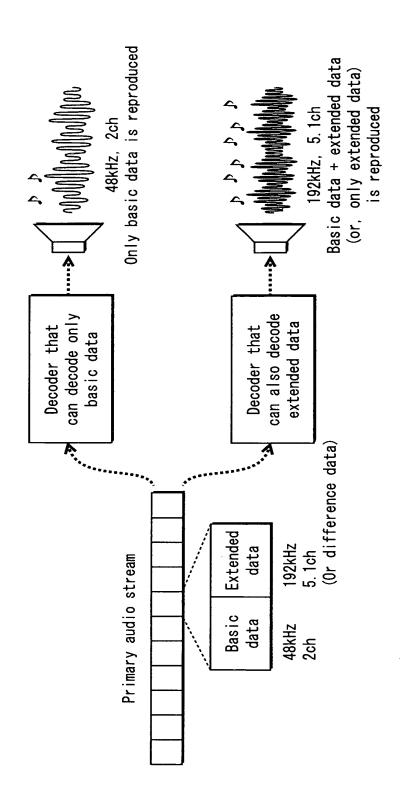


F16.3



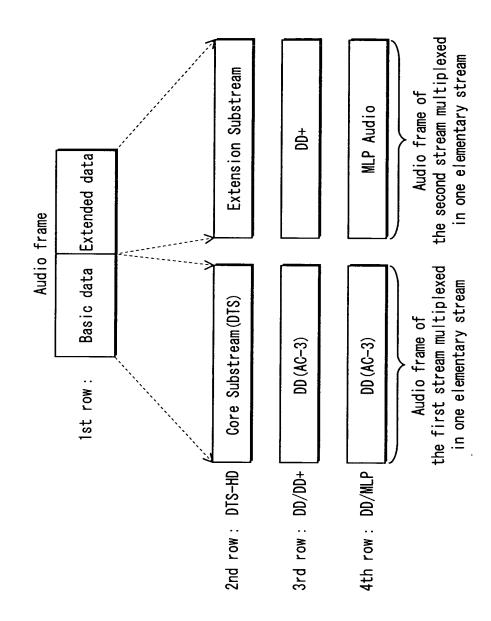


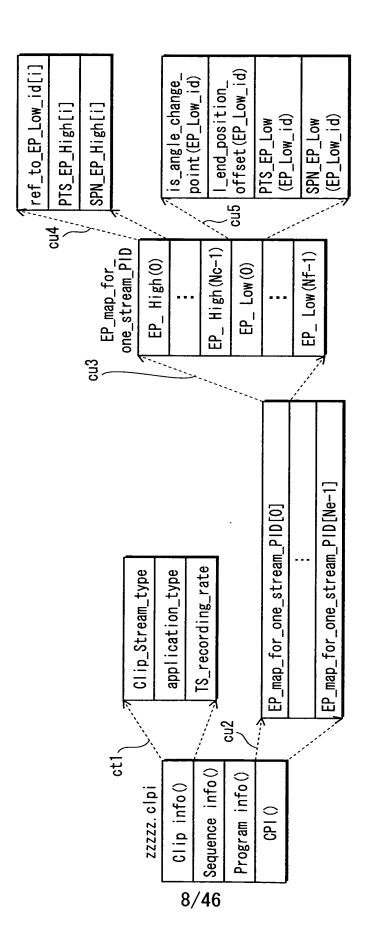




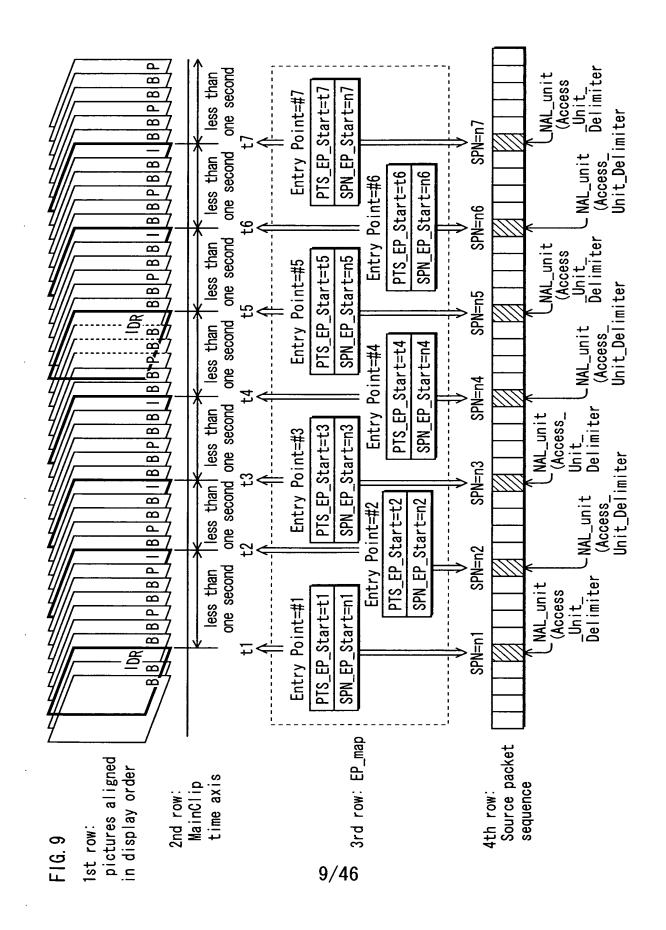
F1G. 6

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F1G. 8



F1G. 10

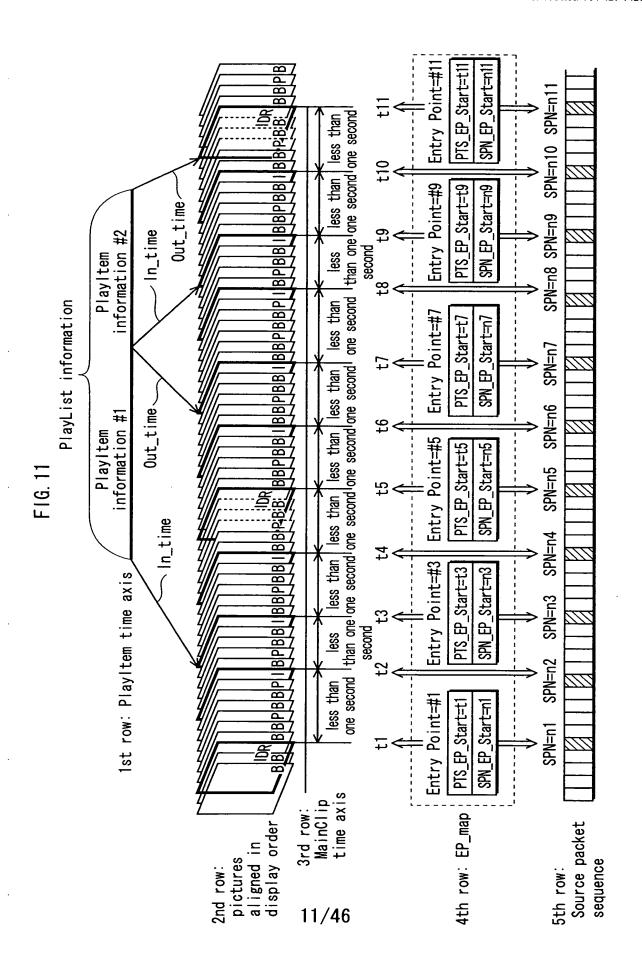


FIG. 12

# STN\_table

	number_of_video_stream_entries
	number_of_audio_stream_entries
	number_of_PG_stream_entries
Video stream permitted	number_of_IG_stream_entries
to be reproduced by $\prec$	entry-attribute
PlayItem	
	entry-attribute
Primary audia atrooma	entry-attribute
Primary audio streams	entry-attribute
permitted to be	entry-attribute
reproduced by PlayItem	:
	entry-attribute
· (	entry-attribute
PG streams permitted	entry-attribute
to be reproduced	entry-attribute
by PlayItem	entry-attribute
by FlayItem	:
ĺ	entry-attribute
IG streams permitted	
to be reproduced	entry-attribute
•	entry-attribute
by PlayItem	

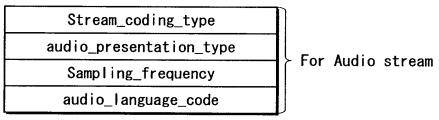
# FIG. 13A

## Stream\_attribute

Video_format	<b>F</b>	V: d	_4
frame_rate	For	video	stream

# FIG. 13B

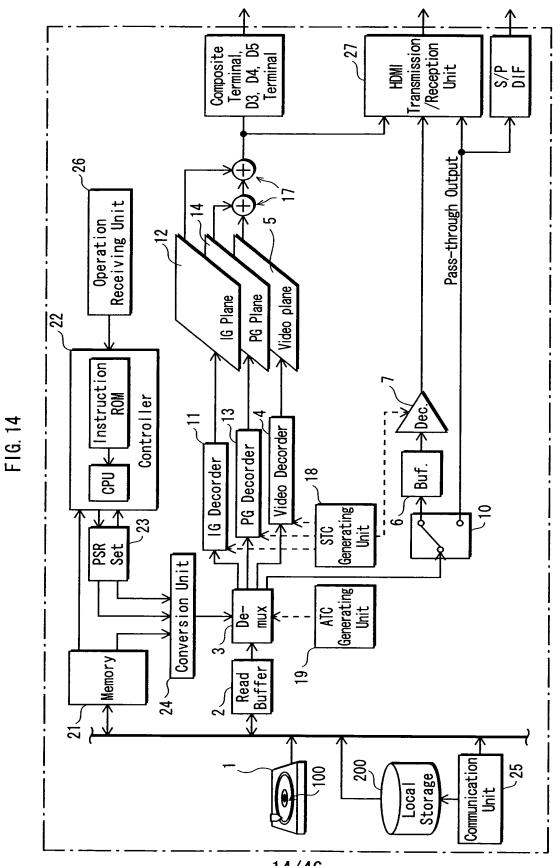
## Stream\_attribute



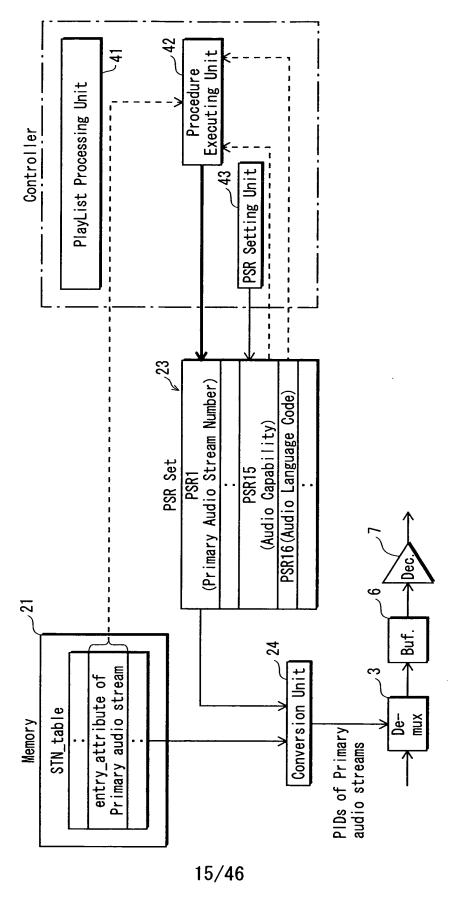
# FIG. 13C

#### Stream\_entry

ref\_to\_Stream\_PID\_of\_Main\_Clip



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F16. 15

FIG. 16A

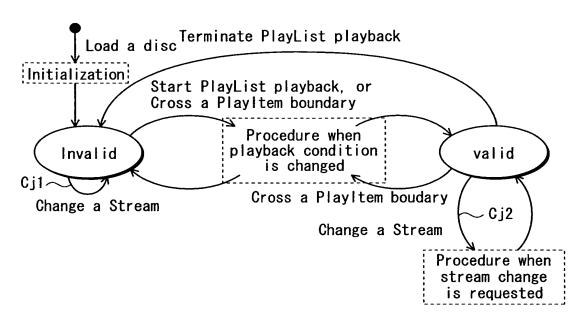
FIG. 16B

It is judged by comparing

of Primary audio stream

PSR15 with stream\_coding\_type

#### Status and Transition for PSR1



Procedure when playback condition is changed S1 YES Number of entries √S3 Maintain value of PSR1 NO **S2** Number of entries YES in STN\_table  $\geq$  PSR1, and condition (A) **S4** is true ? Condition (A): Maintain value of PSR1 Reproduction apparatus has NO capability to reproduce Primary audio stream PSR1 setting identified by PSR1.

**END** 

D

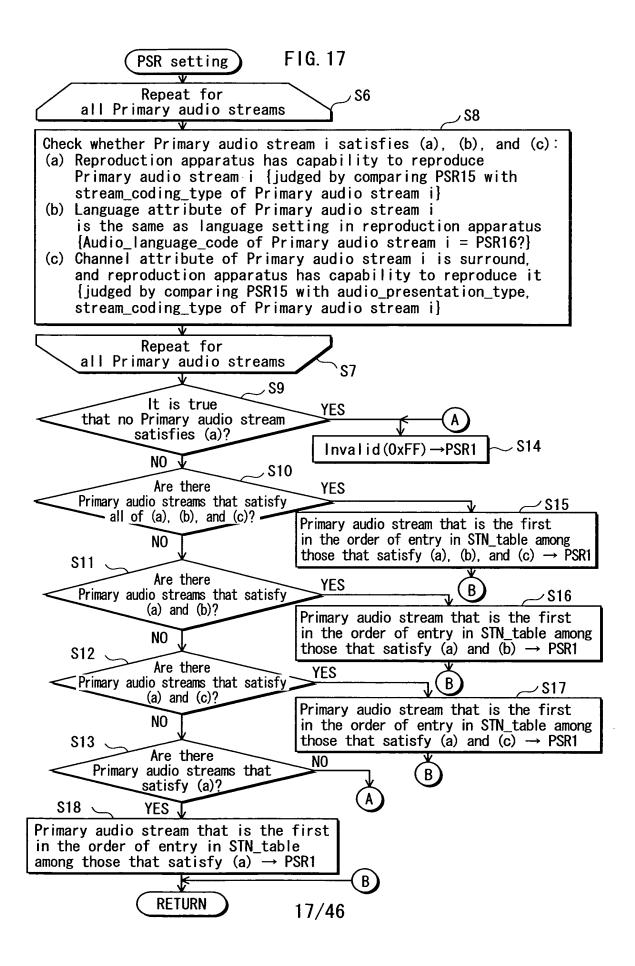
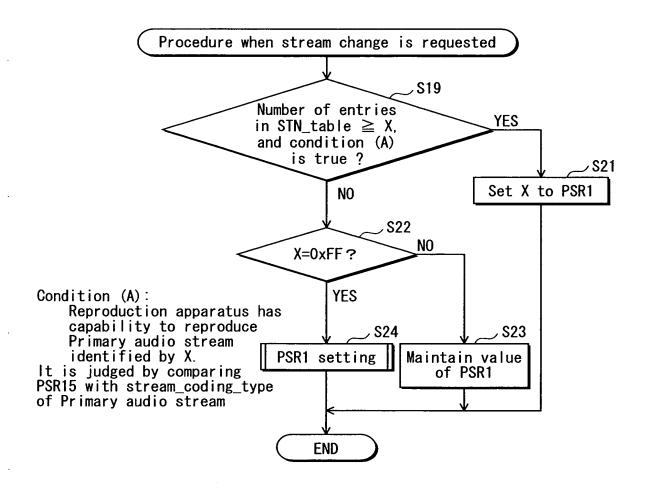
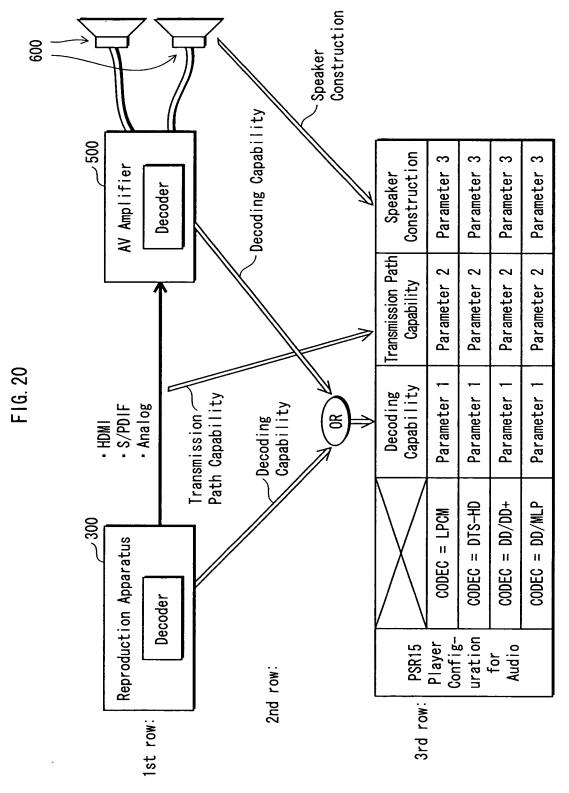


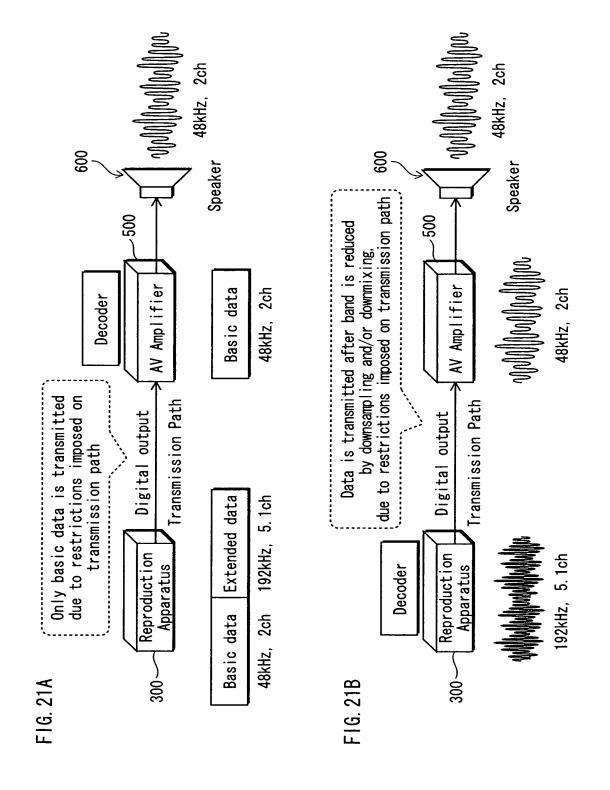
FIG. 18



									Priority	4	3	į	2	1	ì
								Check	surround Capability(c)	×	0	_	×	0	_
O DTS-HD ×	English	English	English	Japanese	Japanese	Japanese		Check	language (b)	×	×	1	0	0	ı
= LPCM O DD/DD+ O = Japanese = Yes	2ch	5. 1ch	5. 1ch	2ch	5. 1ch	5. 1ch		Check	Presentation capability(a)	0	0	×	0	0	×
H H H	+00/00	+00/00	DTS-HD	+00/00	+00/00	DTS-HD			Language	English	English	English	Japanese	Japanese	Japanese
Presentation Capability (PSR 15) Language setting (PSR 16) Surroud Capability (PSR 15)	Audio Stream 1	Audio Stream 2	Audio Stream 3	Audio Stream 4	Audio Stream 5	Audio Stream 6			Channe	2ch	5. 1ch	5. 1ch	2ch	5. 1ch	5. 1ch
Presentati Lan Surro	Audi	Audi	Andi	Andi	Andi	Audi			Codec	+00/00	+00/00	OTS-HD	+00/00	+00/00	DTS-HD
FIG. 19A	FIG. 19B						FIG. 19C	/		Audio Stream 1	Audio Stream 2	Audio Stream 3	Audio Stream 4	Audio Stream 5	Audio Stream 6



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Transmission Path Stream	S/PDIF	HDM!	Analog
LPCM	Up to 48kHz/16bit/2ch	Up to 192kHz/24bit/8ch	
DTS	Output capable	Output as LPCM (output capable: note 1)	
DTS-НD	Only core substream (corresponding to DTS)	Output as LPCM (output capable: note 1)	
DD (AC-3)	Output capable	Output as LPCM (output capable: note 1)	Depend on player
+00/00	Only DD portion	Output as LPCM (output capable: note 1)	
DD/MLP	Only DD portion	Output as LPCM (output capable: note 1)	

Note 1: It can be transmitted in the form of compressed data after HDMI standard is extended in future

PSR15	
<u>a</u>	
23A	
F1G. 23A	

	Decoding Capability	Transmission Path Speaker Capability Construc	Speaker Construction
CODEC = LPCM	Parameter 1	Parameter 2	Parameter 3

F1G. 23B

	Definition Column	Note Column
Decoding Capability:	Either 48/96kHz or 48/96/192kHz, as decoding capability for LPCM	Values of kHz, number of bits, and number of channels up to which LPCM can be decoded
Transmission Path Capability:	Whether transmission with three or Values of kHz, number of bits more channels (surround) is capable and number of channels up to which LPCM can be transmitted	Values of kHz, number of bits, and number of channels up to which LPCM can be transmitted
Speaker Construction:	Whether surround output is capable Whether surround output is capable	Whether surround output is capable

F1G. 24A

PSR15

	Decoding	Transmission Path Speaker	Speaker
	Capability	Capability Construc	Construction
CODEC = DTS-HD	Parameter 1	Parameter 2	Parameter 3

F1G. 24B

	Definition Column	Note Column
Decoding	Whether only DTS and Core Substream	• Whether DTS audio can be decoded,
Capability:	of DTS-HD can be decoded or	• Whether Core Substream of
	Extension Substream can also be	DTS-HD can be decoded
	decoded	· Whether Extension Substream of
		DTS-HD can be decoded
		·Whether Lossless data can be
		decoded
Transmission Path Capability:	Whether Extension substream can be transmitted	Whether Extension substream can be transmitted
Speaker	Whether surround output is capable	Whether surround output is capable
Construction:		

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	Decoding	Transmission Path Speaker	Speaker
	Capability	Capability Constru	Construction
CODEC = DD/DD+	Parameter 1	Parameter 2	Parameter 3

F1G. 25B

	Definition Column	Note Column
Decoding Capability:	Whether only DD and DD portion of DD/DD+ can be decoded or DD+ portion can also be decoded	• Whether DD (AC-3) can be decoded, • Whether DD portion of DD/DD+ can be decoded • Whether DD+ portion of DD/DD+
Transmission Path Capability:	Whether DD+ portion (Substream) of DD/DD+ can be transmitted	Whether DD+ portion (Substream) of DD/DD+ can be transmitted
Speaker Construction:	Whether surround output is capable	Whether surround output is capable

FIG. 26A

SR15

	Decoding	Transmission Path	Speaker
	Capability	Capability	Construction
CODEC = DD/MLP	Parameter 1	Parameter 2	Parameter 3

F1G. 26B

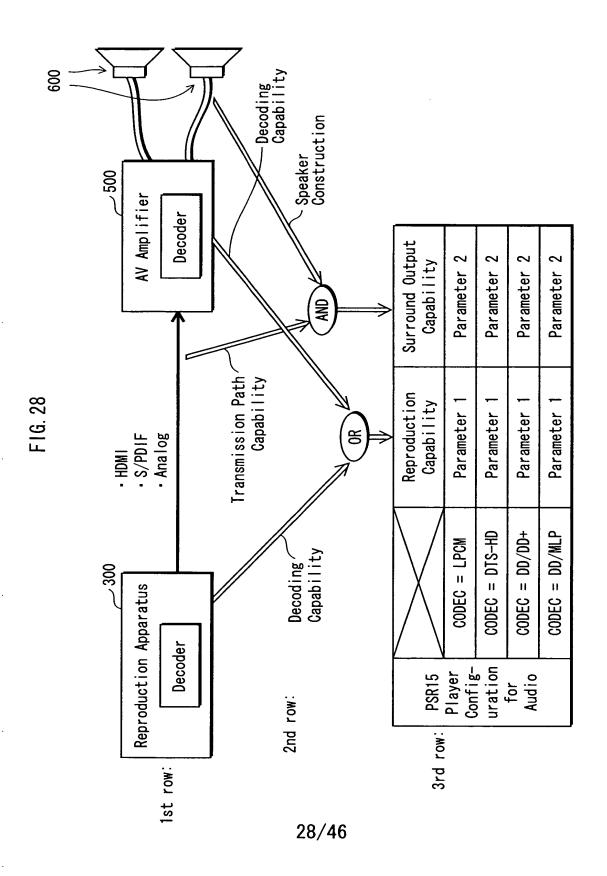
	Definition Column	Note Column
Decoding Capability:	Whether only DD and DD portion of DD/MLP can be decoded or MLP portion can also be decoded	<ul> <li>Whether DD (AC-3) can be decoded,</li> <li>Whether DD portion of DD/MLP can be decoded</li> <li>Whether MLP portion of DD/MLP can be decoded</li> </ul>
Transmission Path Capability:	Whether MLP portion (Substream) of Whether MLP portion (Substream) of DD/MLP can be transmitted	Whether MLP portion (Substream) of DD/MLP can be transmitted
Speaker Construction :	Whether surround output is capable	Whether surround output is capable

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	Decoding Capability	Transmission Path Speaker Capability Construc	Speaker Construction
CODEC = DD/DD+	Parameter 1a	Parameter 2	Parameter 3
CODEC = DD/MLP	Parameter 1b		

F16, 27B

	Definition Column	Note Column
Decoding Capability:	Whether only DD and DD portion of DD/DD+ or DD/MLP can be decoded or DD+ or MLP portion can also be decoded	<ul> <li>Whether DD (AC-3) can be decoded,</li> <li>Whether DD portion of DD/DD+ or DD/MLP can be decoded</li> <li>Whether DD+ portion of DD/DD+ can be decoded</li> <li>Whether MLP portion of DD/MLP can be decoded</li> </ul>
Transmission Path Capability:	Whether DD+ or MLP portion (Substream) of DD/DD+ or DD/MLP can be transmitted	Whether DD+ or MLP portion (Substream) of DD/DD+ or DD/MLP can be transmitted
Speaker Construction:	Whether surround output is capable	Whether surround output is capable



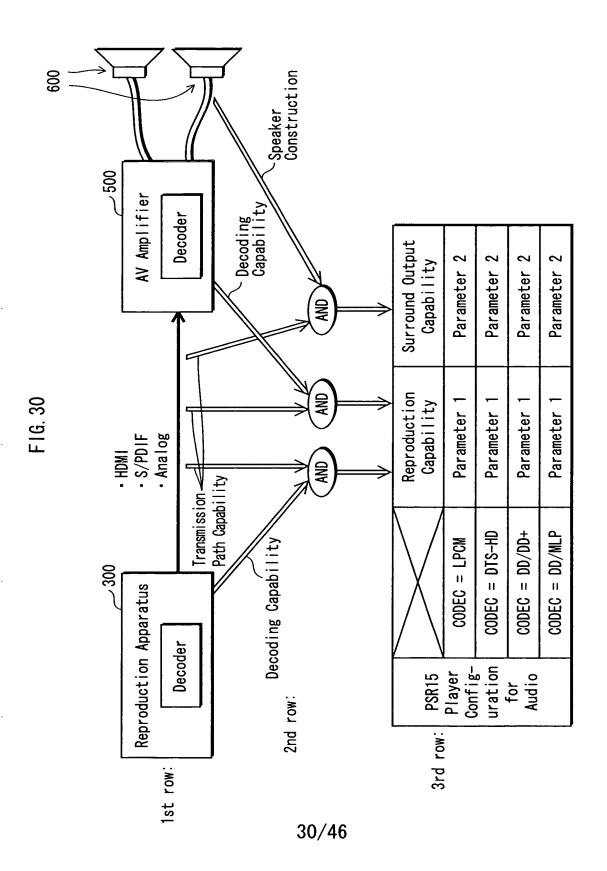
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Z 11	Reproduction Capability = Decoding Capability	Surround Output Capability = Speaker Construction AND Transmission Path Capability
CODEC = LPCM P	Parameter 1	Parameter 2

F1G. 29B

		Transmission P	Transmission Path Capability
		Transmission capable with only 2 channels	Transmission capable with up to 8 channels
	Two or less	Only stereo output	Only stereo output
Speaker Construction	Three or more, or virtual surround can be achieved	Only stereo output	Surround output capable

Values to be set in Parameter 2



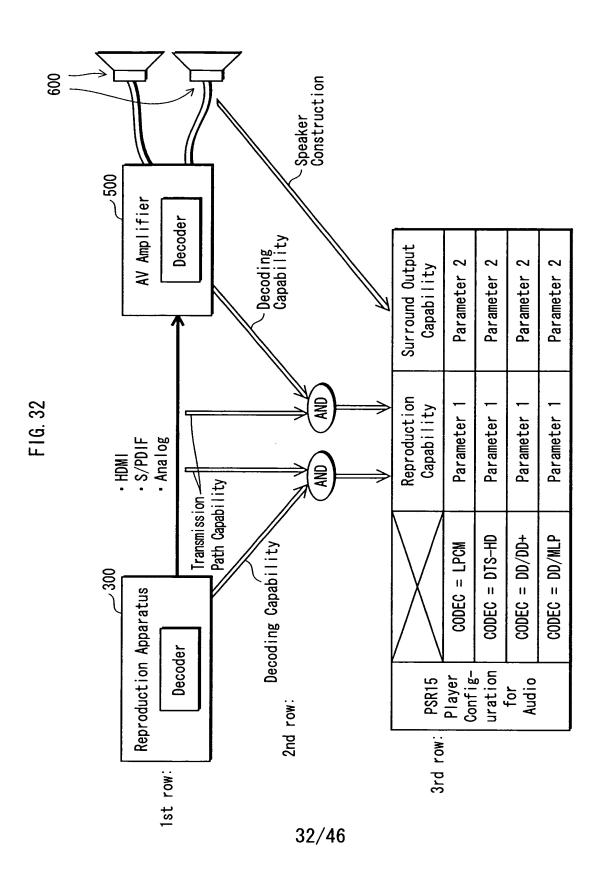
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	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction AND Transmission Path Capability
CODEC = LPCM	Parameter 1	Parameter 2

F1G. 31B

		<u>/</u>	1
oility	Transmission capable at 192kHz	Reproduction of 48kHz/96kHz LPCM capable	Reproduction capable
Transmission Path Capability	Transmission capable at 48kHz	48kHz LPCM is transmitted as it is, 96kHz LPCM is subjected to downsampling before transmission → reproduction of 48kHz/96kHz LPCM capable	48kHz LPCM is transmitted as it is, 96kHz/192kHz LPCM is subjected to downsampling before transmission → reproduction capable
	:	Decoding for 48kHz/96kHz is capable	Decoding for 192kHz is also capable
			Capability

Values to be set in Parameter 1



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	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction
CODEC = DTS CODEC = DTS-HD	Parameter 1	Parameter 2

F16. 33B

ility	Transmission of Extension Substream also capable	Reproduction incapable	Reproduction of DTS and Core Substream of DTS-HD capable	Reproduction of DTS and DTS-HD capable
ath Capal	Transmi Substre	Reprodu	Reproduction of and Core Substr DIS-HD capable	Reproduction o DTS-HD capable
Transmission Path Capability	Transmission of DTS Stream and Core Substream capable	Reproduction incapable	Reproduction of DTS and Core Substream of DTS-HD capable	Reproduction of DTS and Core Substream of DTS-HD capable
		Decoding incapable	Decoding of DTS and Core Substream of DTS-HD capable	Decoding of Extension Substream of DTS-HD also capable
			Decoding Capability	

Values to be set in Parameter 1

F1G. 34A

PSR15

	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction
CODEC = DD (AC-3) CODEC = DD/DD+	Parameter 1	Parameter 2

F1G. 34B

		,		
Transmission Path Capability	Transmission of DD+ portion of DD/DD+ also capable	Reproduction incapable	Reproduction of DD and DD portion of DD/DD+ capable	Reproduction of DD and DD/DD+ capable
Transmission F	Transmission of DD and DD portion of DD/DD+ capable	Reproduction incapable	Reproduction of DD and DD portion of DD/DD+ capable	Reproduction of DD and DD portion of DD/DD+ capable
		Decoding incapable	Decoding of DD and DD portion of DD/DD+ capable	Decoding of DD+ portion Reproduction of DD of DD/DD+ also capable of DD/DD+ capable
			Decoding Capability	

Values to be set in Parameter 1

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	Reproduction Capability = Decoding Capability AND Transmission Path Capability	Surround Output Capability = Speaker Construction
CODEC = DD (AC-3) CODEC = DD/MLP	Parameter 1	Parameter 2

F16.35B

oability	Transmission of MLP portion of DD/MLP also capable	Reproduction incapable	Reproduction of DD and DD portion of DD/MLP capable	Reproduction of DD and DD/MLP capable
Transmission Path Capability	Transmission of DD Trans and DD portion of DD/MLP capable DD/MLP	Reproduction incapable Repro	Reproduction of ReproDD and DD portion of DD/MLP capable	Reproduction of ReproDD and DD portion of and DD/MLP capable
	۲ 3	Decoding incapable	Decoding of DD and DD portion of DD/MLP capable	Decoding of MLP portion of DD/MLP also capable
			Decoding Capability	

Values to be set in Parameter 1

FIG. 36

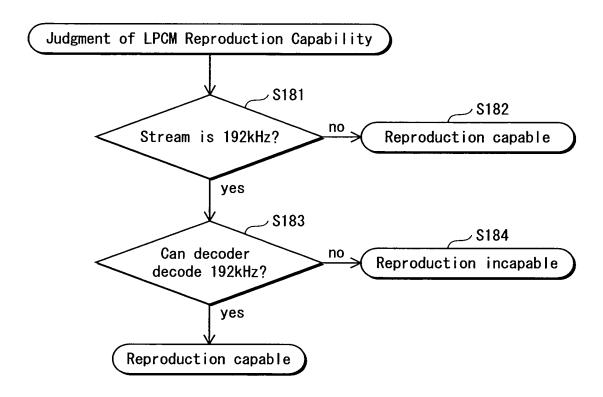


FIG. 37

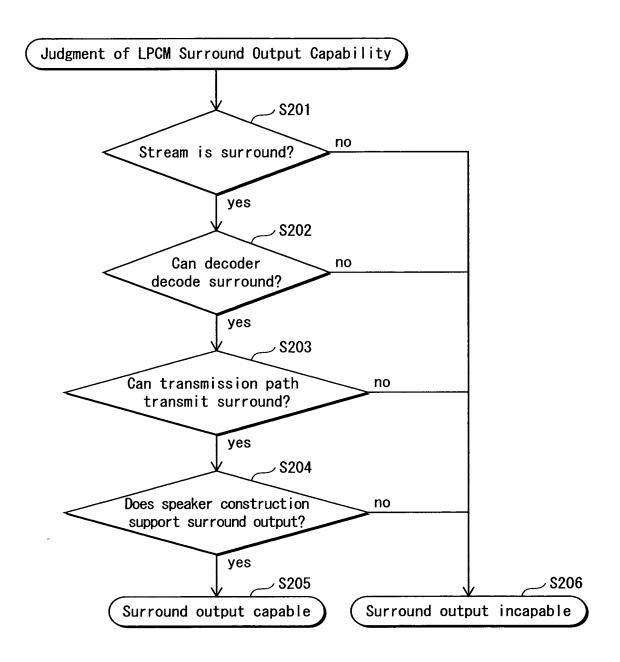
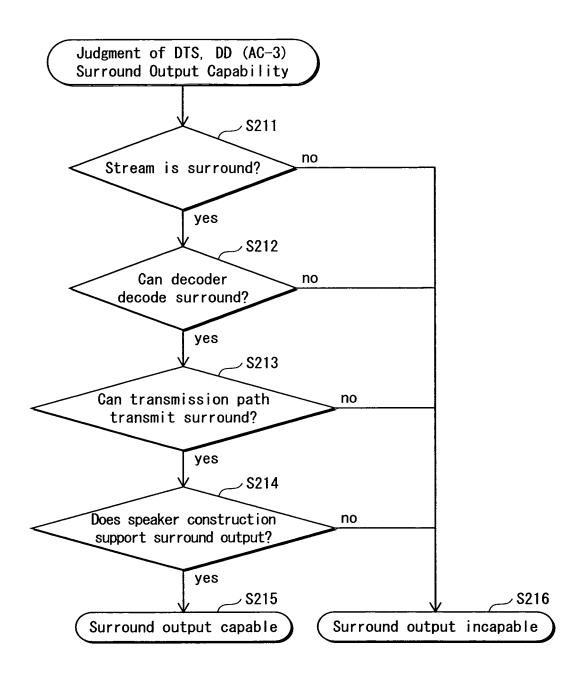
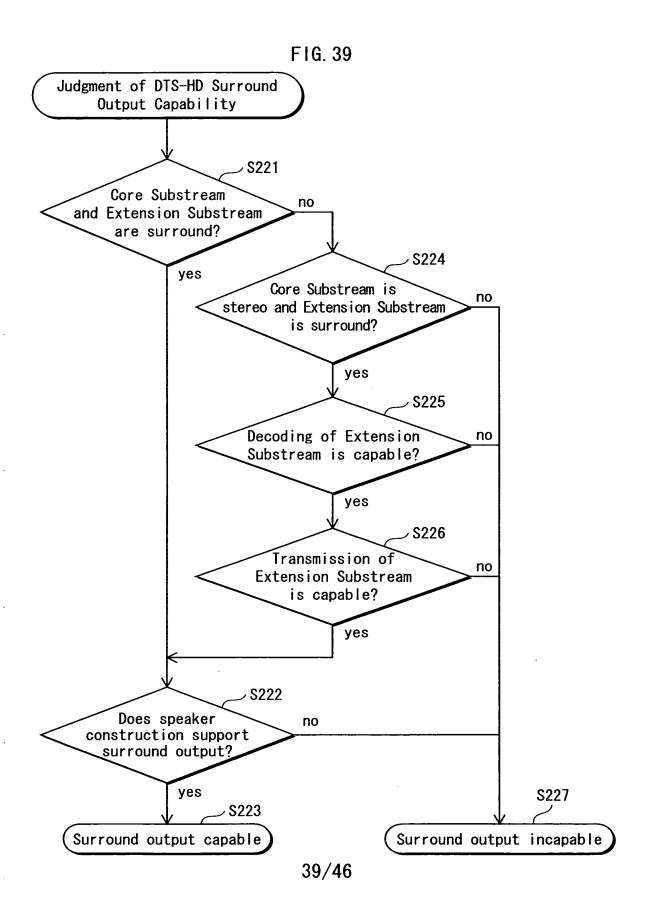


FIG. 38





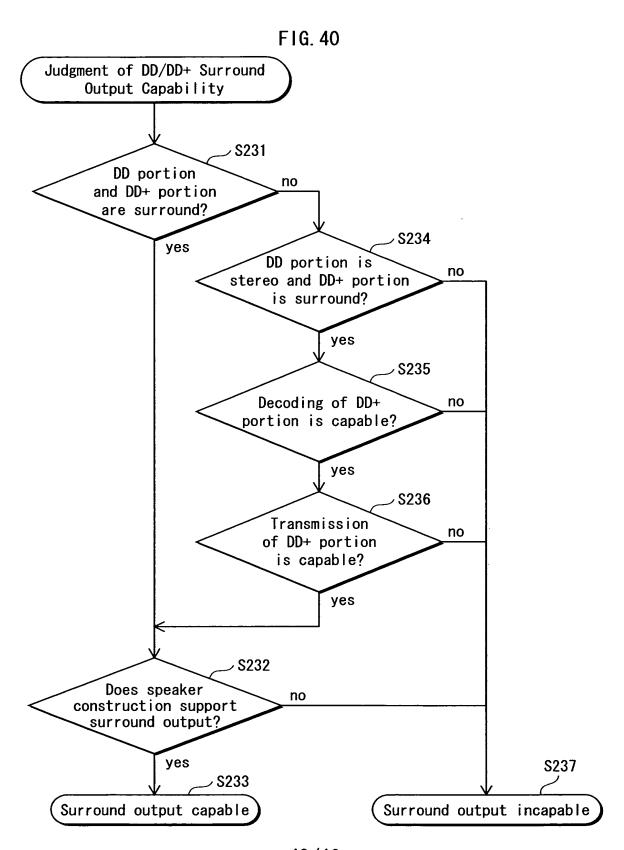
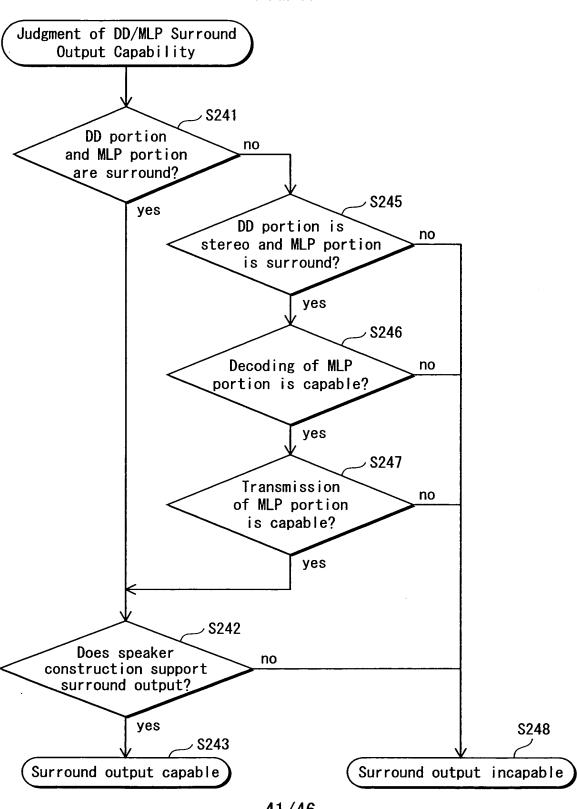
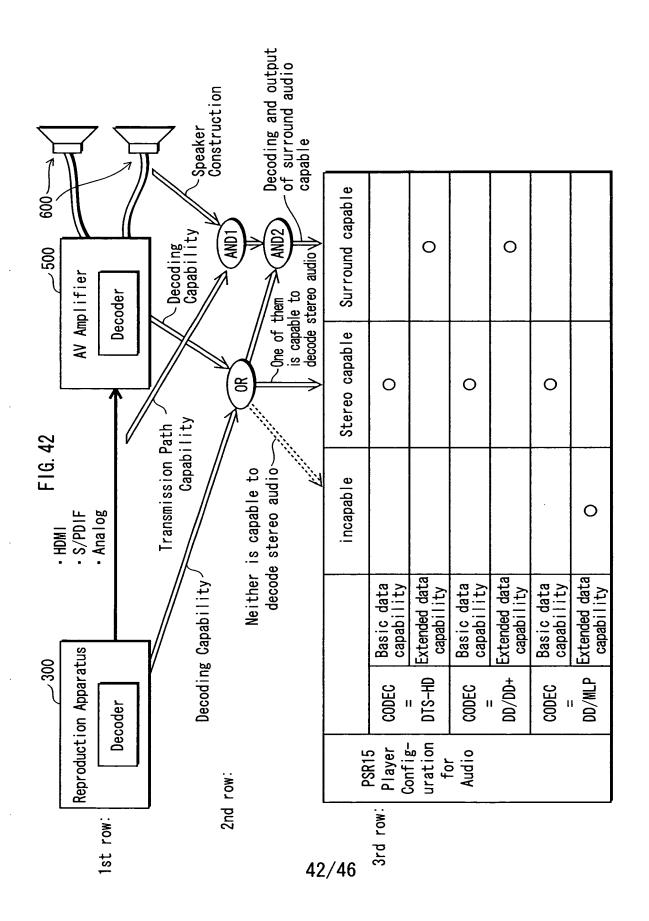


FIG. 41





ty for Aud b28 b b28 b b20 b20 b12 b12 b13) Ext b4 lb:Stereo cap b:Surround c b:Stereo cap b:Surround c cap cap cap cap cap cap cap cap cap c	ty for Audio	b28 b27 b26 b25 b24	reserved		reserved		DTS-HD capability	Extension Substream   Core Substream   D	1	LPCM capability	Τ	eam		John Capable for A8/96kHZ	~	manuscription of all sampling frequency MLP and io	e:A second left bit specifies capability of
apability for Aud b29 b28 b b28 b b21 b20 b b20 b13 b12 b1 b13 b12 b20 b5 b4 lity lndependent substream col010b:Stereo cap 0110b:Surround col10b:Surround col1	hility for Audio	29 b28 b27	020	P20	reserv	b12	DTS-HD		p4		Τ	bstream	0001b:Stereo capable	UVIUDE SULFOUND CAPADI	Ollolo-Stereo capable		Note: A second left b
PSR15:Player Capability for Audio b31 b30 b29 b28 b27   reserved   reserved   reserved   b15 b14 b13 b12 b11   DD/MLP   DD/MLP   DD/DD+ capability   Substream   Substream   Substream   CPCM capability   O010b:Stereo capab   O110b:Stereo   O110b:Stereo   O110b:Stereo   O110b:Stere	PSR15: Plaver Cana	b31 b30 k	200	b22	reserved	b14	DD/MLP		90	二	Dependent	substream	LPCM capability				

FIG. 44

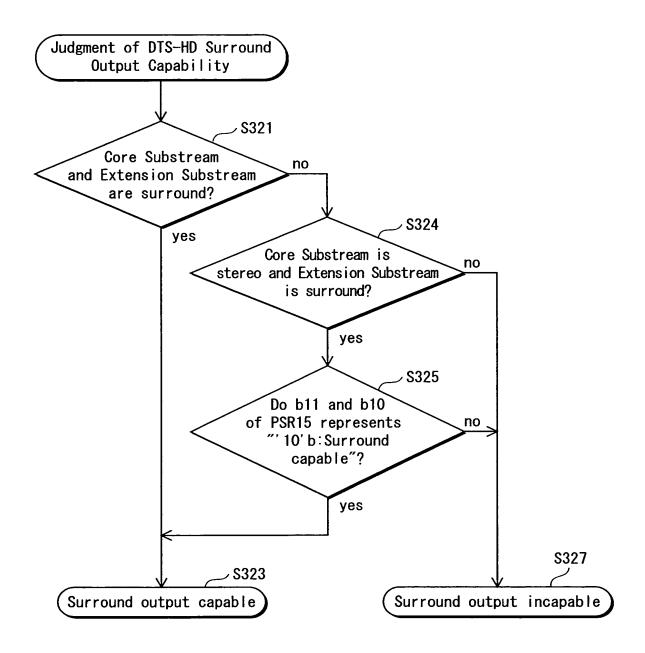


FIG. 45

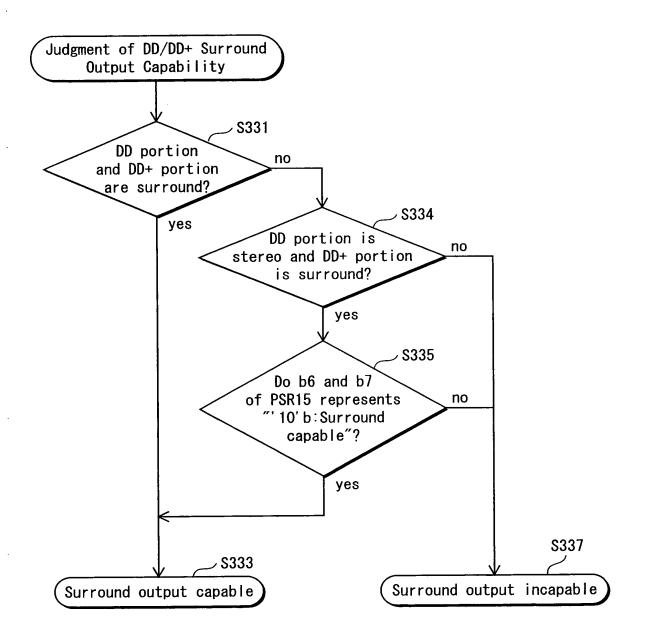


FIG. 46

